

Testing leather/collagen leather test after DIN, EN, ISO, VDA a.o.

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## Accredited Test Laboratory

### Testing of leather, leatherboards, collagenous materials

Overview test lab / contact

#### Tests for single parameters:

##### A) physical-mechanical tests and investigations

Thickness	DIN EN ISO 2589 (DIN 53326*), IUP 4
surface coating thickness	DIN EN ISO 17186
bulk density	DIN EN ISO 2420 (DIN 53327*), IUP 5
Tensile test (tensile force, elongation to break)	DIN EN ISO 3376 (DIN 53328*), IUP 6
Tear test / resistance	DIN EN ISO 3377-1 (DIN 53329-A*), IUP 40
Tearing load/ split tear force	DIN EN ISO 3377-2, IUP 8
stitch tear resistance	DIN 53331
square tensile at tensometer (bulg test), burst pressure	DIN 53323
Finish adhesion	DIN EN ISO 11644, IUP 470
Resistance to flexing (flexometer test)	DIN EN ISO 5402, DIN 53351 (edition 1983-01), IUP 20
Color fastness of rubbing (dry, wet, sweat)	DIN EN ISO 11640 (DIN 53339*), IUP 450
Sweat fastness / resistance to transpiration	DIN EN ISO 11641, DIN EN ISO 105-E04
Water resistance, Water permeability (penetrometer)	DIN EN ISO 5403 (DIN 53338*), DIN EN 344-1, IUP 10
Water absorption - testing	DIN EN ISO 2417 (DIN 53330*, Kubelka), IUP 7, after Freundlich
Water-vapour permeability	DIN EN 14268 (DIN 53333*), IUP 15, Herfeld-method
Light fastness tests	DIN EN ISO 105-B02 (DIN 54004 *), IUP 402
Fastness to light	VDA 75202 (DIN 75202*), ISO 105-B06, PV 1303
Shrinking behaviour, Climatic-shock resistance	TL 52064, PV 1200, DBL 5310, PTL 5002, BMW, PA-N 123 a.o.
Burning test / fire testing	DIN 75200/FMVSS 302, DIN EN 1021-1/-2, TL 1010, DBL 5307, FMV99 302
Full grain (test for corrected grain)	FILK-QMA-1201
Genuine leather (descriptor)	RAL 060 A2
Microscopy, photography	Light microscopy, digital camera, SEM

##### B) Chemical-analytical tests and investigations

Water content - measurement / volatile components	DIN 53304, DIN EN 14676 (draft), IUC 5
Ashes (total, water-insoluble)	DIN EN ISO 4047 (Norm DIN 53305*), IUC 7
Dichloromethane extract (fat content / grease content)	DIN EN ISO 4048 (DIN 53306*), IUC 4
pH value - determination	DIN EN ISO 4045 (DIN 53312*), IUC 11
Water soluble matter (Washouts)	DIN EN ISO 14657 (DIN 53307*), IUC 6
Chromium oxide content	DIN 53309, IUC 8
Chromium (VI) content	DIN CEN/TS14495, DIN 53314, IUC 18
Azo dyes	DIN ISO/TS 17234, DIN 53316, IUC 20
Pentachlorophenol (PCP)	DIN CEN/TS14494, § 35 LMBG B 82.02-B

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Determination of formaldehyde content

Elutable heavy metals

Collagen content

Detection of amide nitrogen

Emissionen, VOC, fogging, odour

Analytic (elements, compounds)

\*old standards

(DIN 53313 \*), IUC 25

DIN ISO/TS 17226, (DIN 53315\*), IUC 19

DIN EN ISO 105-E04 (DIN 54020)

FILK-QMA 2003 / Hydroxyprolin-method

DIN 53308, IUC 10

a. o. VDA 270, VDA 275, VDA 277, VDA 278, DIN EN ISO 14288

a. o. EDX, XPS / ESCA Quant. element-contents, FTIR, GC-MS

**Tests in accordance with Technical Specifications („Technische Lieferbedingungen“ – TL):**

- Full testing AUDI/VW TL 52064, VW 50103, VW 50104, VW 50180
- Leather testing Opel TM 900400, TM 900600, TM 900700
- Daimler-Chrysler DBL 5306, DBL 5310
- BMW 8171 302.6, QV 51033 u.a.
- Porsche PTL 5202, PN 780
- Leather testing to the German Federal Armed Forces' guidelines TL 8330, among them i. a.:
  - Shoe upper and lining leather (TL 8330-0001)
  - Sleeve and harness leather (TL 8330-0003)
  - Glove leather (TL 8330-0006), garment leather (TL 8330-0007)
  - Chrome split leather (TL 8330-0009), water-proof leather (TL 8330-0010)
  - Latchet leather, edging leather (TL 8330-0016), counters (TL 8330-0018)
  - Harmful matters (TL 8330-0013-A)

More tests and prices on request

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